



GROUNDWATER MONITORING REPORT- FIRST QUARTER 2009

**SHELL-BRANDED SERVICE STATION
4902 25th AVENUE SE
SEATTLE, WASHINGTON**

SAP CODE	171156
INCIDENT NO.	97605414
AGENCY NO.	41675877
VCP NO.	NW2079

JULY 14, 2009

REF. NO. 241735 (4)

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	4902 25 th Avenue NE, Seattle
Site Use	Shell-Branded Service Station
Shell Project Manager	Carol Campagna
CRA Project Manager	Justin Foslien
Lead Agency and Contact	WDOE, Libby Goldstein
Agency Case No.	41675877
Shell SAP Code:	171156
Shell Incident No.	97605414
VCP No.	NW2079

The most recent agency correspondence on record is dated March 5, 2009.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater elevation contour and chemical concentration map (Figure 2). CRA prepared Tables 1 and 2 summarizing groundwater monitoring data and the laboratory analytical results. Field forms and the laboratory analytical report are included as Appendices A and B, respectively.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Estimated to the south
Hydraulic Gradient	0.007 feet/foot
Depth to Water	2.14 to 3.76 feet below top of well casing

2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

Blaine will gauge and sample wells during the second month of the second quarter of 2009, according to the established monitoring program for this site.

2.4 DISCUSSION

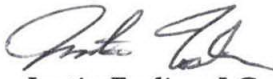
Monitoring wells MW-1 through MW-4 were gauged for depth to water and sampled for laboratory analysis on February 5, 2009. All analyte concentrations in the groundwater samples collected for all monitoring wells were below the Washington State Department of Ecology Model Toxics Control Act Method A cleanup levels.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

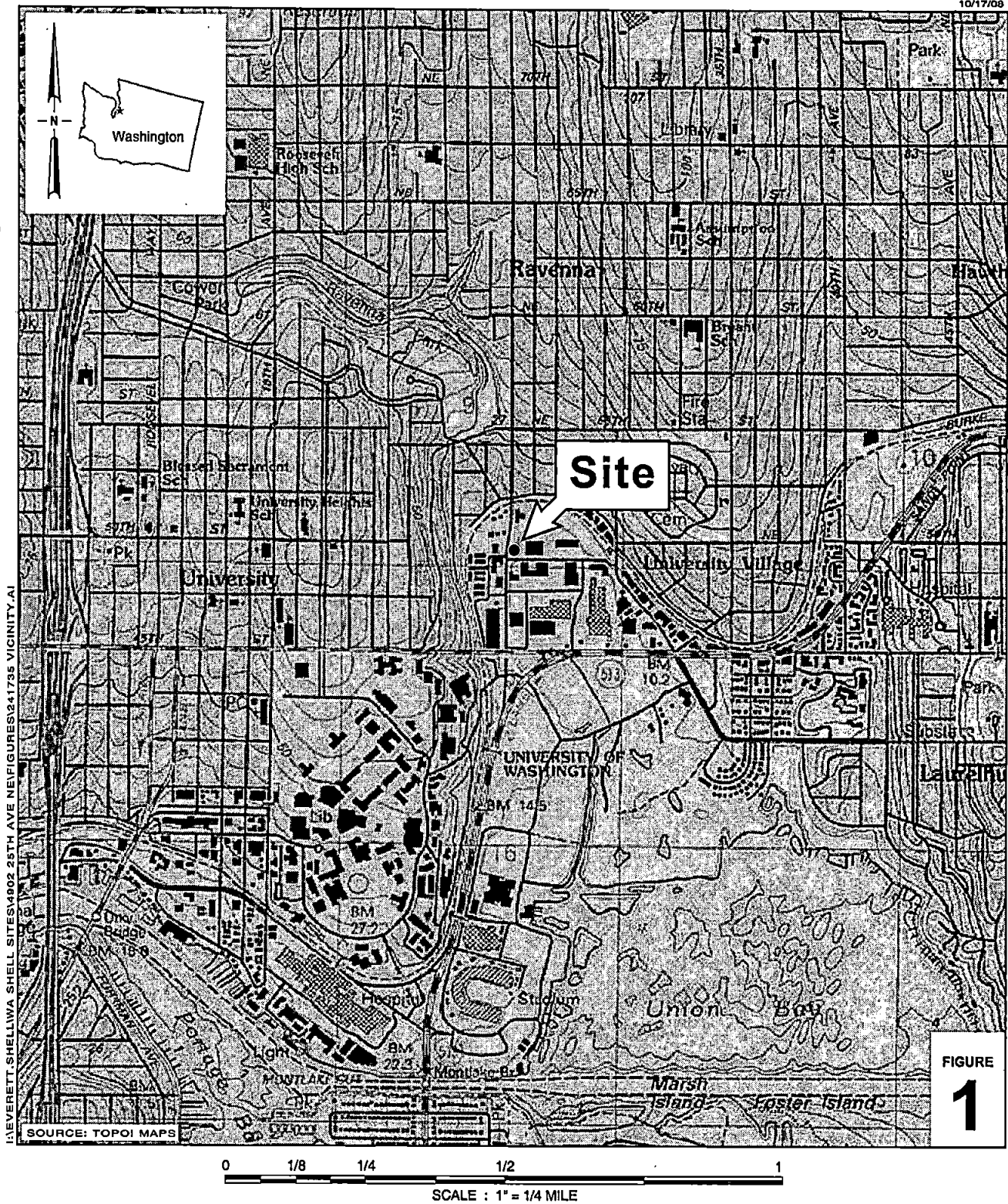

Andy Leung



Justin Francis Foslien


Justin Foslien, LG

FIGURES



Jiffy Lube No. 2075

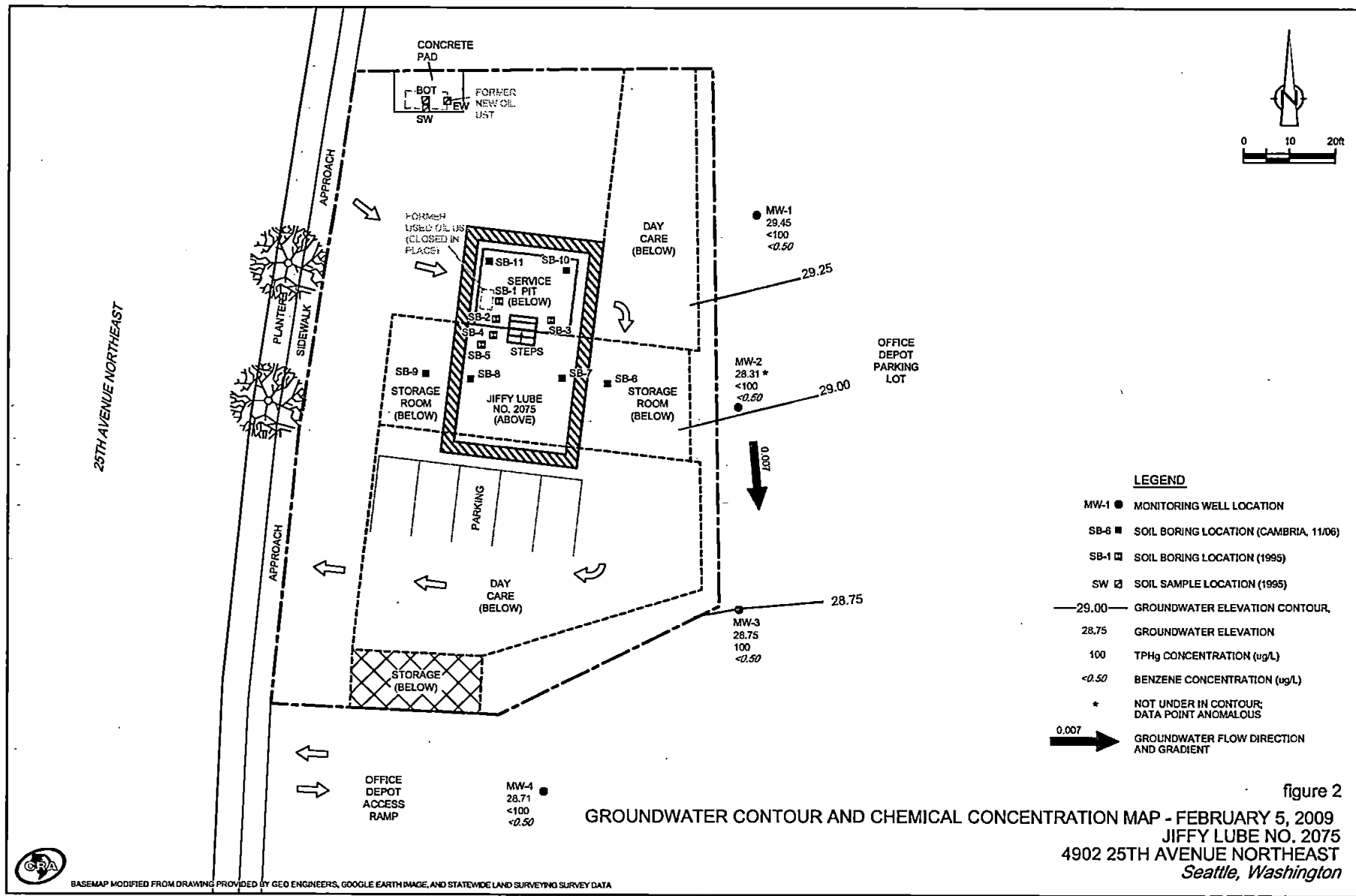
4902 25th Avenue N.E.

Seattle, Washington



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map



BASEMAP MODIFIED FROM DRAWING PROVIDED BY GEO ENGINEERS, GOOGLE EARTH IMAGE, AND STATEWIDE LAND SURVEYING SURVEY DATA

241735-2009(004)GN-WA001 JUN 19/2009

TABLES

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA - PETROLEUM HYDROCARBONS, BTEX, MTBE, AND OXYGENATES

4902 25TH AVENUE NE
SEATTLE, WASHINGTON

Sample ID	Date	TOC	DTW	GWE	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	Total Lead
Model Toxics Control Act Method A Cleanup Levels					800/1000	500	500	5	1000	700	1000	20					15
MW-1	05/21/08	32.11	3.00	29.11	<50	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	94.2
MW-1	08/14/08	32.11	3.40	28.71	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	75.6
MW-1	11/26/08	32.11	2.75	29.36	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	44.1
MW-1	02/05/09	32.11	2.66	29.45	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-2	05/21/08	31.72	2.84	28.88	<50	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	23.4
MW-2	08/14/08	31.72	3.51	28.21	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	27.2
MW-2	11/26/08	31.72	3.16	28.56	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	21.8
MW-2	02/05/09	31.72	3.41	28.31	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-3	05/21/08	30.89	2.44	28.45	73	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	111
MW-3	08/14/08	30.89	2.75	28.14	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	67.6
MW-3	11/26/08	30.89	2.34	28.55	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	43.3
MW-3	02/05/09	30.89	2.14	28.75	100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-4	05/21/08	32.47	4.08	28.39	<50	<250	<400	<1.0	<1.0	<1.0	<1.0	<1.00	<5	<1	<1	<1	53.9
MW-4	08/14/08	32.47	4.39	28.08	<100	<100	110	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	55.8
MW-4	11/26/08	32.47	3.85	28.62	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	53.0
MW-4	02/05/09	32.47	3.76	28.71	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level.

TOC = Top of Casing in feet above mean sea level.

All results in ug/L unless otherwise indicated.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwise noted.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-Dx unless otherwise noted

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA - PETROLEUM HYDROCARBONS, BTEX, MTBE, AND OXYGENATES

4902 25TH AVENUE NE
SEATTLE, WASHINGTON

<i>Sample ID</i>	<i>Date</i>	<i>TOC</i>	<i>DTW</i>	<i>GWE</i>	<i>TPHg</i>	<i>TPHd</i>	<i>TPHo</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>	<i>TBA</i>	<i>DIPE</i>	<i>ETBE</i>	<i>TAME</i>	<i>Total Lead</i>
Model Toxics Control Act Method A Cleanup Levels					800/1000	500	500	5	1000	700	1000	20					15

TPHo = Total petroleum hydrocarbons as heavy oil, analyzed by NWTPH-Dx unless otherwise noted.

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B;

before February 26, 2008, analyzed by EPA Method 8020 unless otherwise noted

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TBA = Tertiary-butanol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 6020

<x = Not detected at laboratory reporting limit x

— = Not analyzed

TABLE 2

SUMMARY OF GROUNDWATER MONITORING DATA - POLYCYCLIC AROMATIC HYDROCARBONS

4902 25TH AVENUE NE
SEATTLE, WASHINGTON

Sample ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i) perylene	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene
		Model Toxics Control Act Method A Cleanup Levels																	
MW-1	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-1	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-1	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-1	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-2	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-2	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-2	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-2	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-3	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-3	08/14/08	0.33	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-3	11/26/08	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-3	02/05/09	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-4	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-4	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-4	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-4	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Notes:

Polycyclic aromatic hydrocarbons(PAH) analyzed by EPA Method 8270C-SIM.

All results in ug/L unless otherwise indicated.

<x = Not detected at laboratory reporting limit x

— = Not analyzed

APPENDIX A

BLAINE TECH SERVICES, INC.

FIELD FORMS

Job Clearance Form							
Location: 4902 25th Seattle		Work Order Number: 090205051		Date: 2/5/09			
Company: DS		Number of Workers: 1		Start Time: 0700		End Time: 	
Problem/Work Description: Sample 4 wells				Return Call: yes/no		Damage Cost: yes/no	
☒ SAFETY VEST ☒ PROTECTIVE CLOTHING ☒ HARD HAT ☒ GLOVES ☒ SHOES & BOOTS ☒ SAFETY GLASSES/GOOGLES ☐ HEARING PROTECTION ☐ WELDING PPE ☐ RESPIRATOR ☐ OTHER							
Work description (optional) Location: 4902 25th Seattle Number of Workers: 1 Start Time: 0700 End Time: Work description (optional) Location: 4902 25th Seattle Number of Workers: 1 Start Time: 0700 End Time: Work description (optional) Location: 4902 25th Seattle Number of Workers: 1 Start Time: 0700 End Time: 							
GENERAL SAFETY CHECKS Has the work area been fully set up? Are all personnel aware of status of work including remaining isolation? Are changes to equipment documented and approved? Are lockouts, new lockouts, unsafe situations reported? Other:							
Signature Section Contractor representative name: S. Lane Signature: [Signature] Site representative name: T. H. / L. B. Signature: [Signature]							

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising hereunder applicable to the work.

This form covers regulated conditions and is not intended to release the contractor from liability for performing the work in compliance with all applicable laws and regulations.

The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable terms of the form or other applicable safety requirements.

LAB (LOCATION)
☒ PHYSICS ()
☐ SPL Houston ()
☐ XEICO ()
☐ TEST AMERICA ()
☐ OTHER ()



Please Check Appropriate Box:

☒ ENV. SERVICES	☐ MOTIVA RETAIL	☐ SHELL RETAIL
☐ MOTIVA SD&CH	☐ CONSULTANT	☐ LUBES
☐ SHELL PIPELINE	☐ OTHER _____	

Carol Compagna

☐ CHECK IF NO INCIDENT APPLIES

DATE: 2/5/09

PAGE: 1 of 1

COMP. 143 COMPACT

Blaine Tech Services

ADDRESS
1680 Rogers Avenue, San Jose, Ca.

PROJECT CONTACT (Agency or PDF Report to)

816-925-2913x101

FAX 816-925-2891

skeln

dkoskela@blainetech.com

TURNAROUND TIME (CALENDAR DAYS)

☐ 3 DAYS☐ 3 DAYS☐ 2 DAYS☐ 24 HOURS☐ RESULTS NEEDED
ON WEEKEND☐ LA - RWQCB REPORT FORMAT

☐ LIST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

☒ SHELL CONTRACT RATE APPLIES☐ STATE REIMBURSEMENT RATE APPLIES☐ EDD NOT NEEDED

☒ RECEIPT VERIFICATION REQUESTED

**See Calscience PM for WA Dept. of Ecology MTCA Method A
cleanup levels for minimum detection limits**

REQUESTED ANALYSIS

TEMPERATURE ON RECT

**Container PID Readings
or Laboratory Notes**

[illegible]

WELLHEAD INSPECTION FORM

Client: Shell Site: 97605414 Date: 2/5/09
Job #: 096205-SL1 Technician: SL Page: 1 of 1

[illegible]

Notes:

SHELL BILL OF LADING

SOURCE RECORD BILL OF LADING
 FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

97605414
 INCIDENT # Carol Campagna
 Shell Engineer
 4902 25th Seattle
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	4500		
MW-2	7500		
MW-3	5400		
MW-4	6300		
added equip.		any other	
rinse water		adjustments	
TOTAL GALS. RECOVERED	25700	loaded onto	
		BTS vehicle #	71
BTS event #	090205541	time	
signature	SC22	date	21519

RECEIVED AT		time	
BTS Kent		date	
unloaded by			
signature			

WELL GAUGING DATA

Project #

Date 2/5/09

Client

Shell

Site

4902

25th

Seattle

[illegible]

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090205-GL1	Client: Shell
Sampler: SL	Start Date: 2/5/09
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8
Total Well Depth: 7.71	Depth to Water Pre: 2.66 Post: 2.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: 491556

Purge Method: 2" Grundfos Pump
 Sampling Method: Dedicated Tubing
 Flow Rate: 100 mL/min

~~Peristaltic Pump~~
~~New Tubing~~
 Pump Depth: 5'

Bladder Pump
 Other

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1158	10.54	6.85	538	110	0.87	27.1	900	2.70
1201	10.57	6.92	538	76	0.84	25.6	1800	2.70
1204	10.58	6.94	538	65	0.79	24.1	2700	2.70
1207	10.60	6.95	539	59	0.77	22.3	3600	2.70
1210	10.62	6.97	538	59	0.76	21.6	4500	2.70

Did well dewater? Yes ☒ No	Amount actually evacuated: 4500 mL
Sampling Time: 1210	Sampling Date: 2/5/09
Sample I.D.: MW-1	Laboratory: BCLabs - GRS Science
Analyzed for: See Cal	
Equipment Blank I.D.: @	Duplicate I.D.: Time

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090205-GL1	Client: Shell
Sampler: SL	Start Date: 2/5/09
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 7.43	Depth to Water Pre: 7.41 Post: 7.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: 49158

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Flow Rate: 500 mL/min

~~Peristaltic Pump~~
~~New Tubing~~

Bladder Pump

Other

Pump Depth: 5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
11:26	11.57	6.80	511	102	1.18	30.9	1500	FW 7.46
11:29	11.66	6.91	511	31	0.92	24.1	3000	7.46
11:32	11.79	6.96	511	25	0.80	19.5	4500	7.46
11:35	11.74	7.04	513	26	0.75	16.1	6000	7.46
11:38	11.80	7.07	513	24	0.74	14.3	7500	7.46

Did well dewater? Yes ☒ No

Amount actually evacuated: 7500 mL

Sampling Time: 11:40

Sampling Date: 2/5/09

Sample I.D.: MW-2

Laboratory:

BC Labs

CA Science

Analyzed for: See Col

Equipment Blank I.D.:

@

Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090205-SL1	Client: Shell
Sampler: SL	Start Date: 2/5/09
Well I.D.: MW-3	Well Diameter: 3 4 6 8
Total Well Depth: 7.12	Depth to Water Pre: 2.14 Post: 2.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: Y9158

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Flow Rate: 300 mL/min

~~Peristaltic Pump~~
~~New Tubing~~

Bladder Pump

Other

Pump Depth: 5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1049	11.17	6.98	456	256	1.75	21.5	900	2.20
1052	11.29	7.03	456	180	1.07	24.2	1800	2.20
1055	11.38	7.05	455	191	0.97	19.1	2700	2.20
1058	11.44	7.09	454	184	0.93	15.5	3600	2.20
1101	11.47	7.10	453	178	0.91	13.2	5400	2.20

Did well dewater? Yes ☒ No

Amount actually evacuated: 5400 mL

Sampling Time: 1105

Sampling Date: 2/5/09

Sample I.D.: MW-3

Laboratory: BGLabs - GRS Science

Analyzed for: See Col

Equipment Blank I.D.: @ Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090205-SL</u>	Client: <u>Shell</u> <u>97605414</u>
Sampler: <u>SL</u>	Start Date: <u>2/5/09</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>12.91</u>	Depth to Water Pre: <u>3.76</u> Post: <u>3.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>Y91556</u>

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Flow Rate: 300 mL/min

~~Peristaltic Pump~~
~~New Tubing~~

Bladder Pump

Other

Pump Depth: 7'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1011	12.43	6.44	596	71000	1.61	58.1	900	3.87
1014	12.77	6.74	585	71000	1.43	36.2	1800	3.87
1017	12.85	6.88	581	682	1.28	-1.7	2700	3.87
1020	13.75	7.18	573	391	1.33	-2.4	3600	3.87
1023	13.35	7.19	572	289	1.31	-5.5	4500	3.87
1026	13.76	7.22	570	278	1.29	-7.8	5400	3.87
1029	13.77	7.25	568	270	1.27	-8.4	6300	3.87

Did well dewater? Yes ☒ No

Amount actually evacuated: 6300

Sampling Time: 1030

Sampling Date: 2/5/09

Sample I.D.: MW-4

Laboratory:

BC Labs GA Science

Analyzed for: See Col

Equipment Blank I.D.:

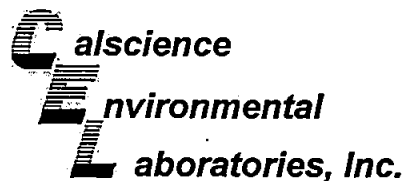
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Time

Duplicate I.D.:

APPENDIX B

LABORATORY ANALYTICAL REPORT



February 20, 2009

Dan Koskela
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 09-02-0612**
Client Reference: **4902 25th Ave., NE. Seattle, WA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/6/2009 and analyzed in accordance with the attached chain-of-custody.

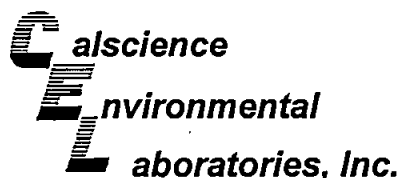
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3020A Total
Method: EPA 6020

Project: 4902 25th Ave., NE. Seattle, WA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-0612-1-E	02/05/09 12:10	Aqueous	ICP/MS A	02/06/09	02/07/09 16:12	090206L04

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

MW-2	09-02-0612-2-E	02/05/09 11:40	Aqueous	ICP/MS A	02/06/09	02/07/09 16:14	090206L04
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

MW-3	09-02-0612-3-E	02/05/09 11:05	Aqueous	ICP/MS A	02/06/09	02/07/09 16:17	090206L04
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

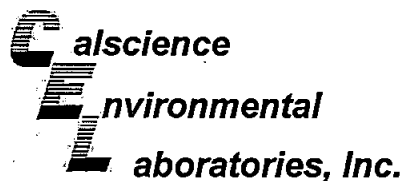
MW-4	09-02-0612-4-E	02/05/09 10:30	Aqueous	ICP/MS A	02/06/09	02/07/09 16:19	090206L04
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Method Blank	096-06-003-1,914	N/A	Aqueous	ICP/MS A	02/06/09	02/07/09 14:44	090206L04
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: NWTPH-Gx

Project: 4902 25th Ave., NE. Seattle, WA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-0612-1-H	02/05/09 12:10	Aqueous	GC 29	02/12/09	02/12/09 21:03	090212B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	101	38-134			

MW-2	09-02-0612-2-H	02/05/09 11:40	Aqueous	GC 29	02/12/09	02/12/09 21:37	090212B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	96	38-134			

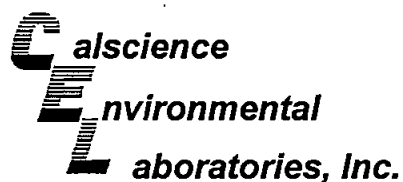
MW-3	09-02-0612-3-H	02/05/09 11:05	Aqueous	GC 29	02/12/09	02/12/09 22:11	090212B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	100	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	104	38-134			

MW-4	09-02-0612-4-H	02/05/09 10:30	Aqueous	GC 29	02/12/09	02/12/09 19:21	090212B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	102	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: NWTPH-Gx

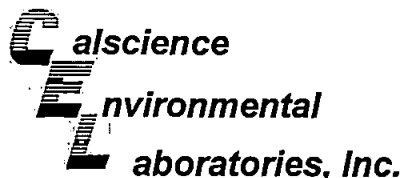
Project: 4902 25th Ave., NE. Seattle, WA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-743-137	N/A	Aqueous	GC 29	02/12/09	02/12/09 17:39	090212B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	103	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: NWTPH-Dx
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-0612-1-D	02/05/09 12:10	Aqueous	GC 48	02/10/09	02/13/09 19:17	090210B19

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	94	68-140							

MW-2	09-02-0612-2-D	02/05/09 11:40	Aqueous	GC 48	02/10/09	02/13/09 01:12	090210B19
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	102	68-140							

MW-3	09-02-0612-3-D	02/05/09 11:05	Aqueous	GC 48	02/10/09	02/13/09 19:32	090210B19
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	89	68-140							

MW-4	09-02-0612-4-D	02/05/09 10:30	Aqueous	GC 48	02/10/09	02/13/09 01:43	090210B19
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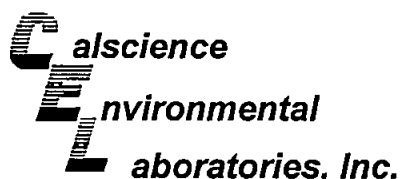
Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	102	68-140							

Method Blank	099-12-840-45	N/A	Aqueous	GC 48	02/10/09	02/12/09 22:32	090210B19
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Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	96	68-140		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Page 1 of 3

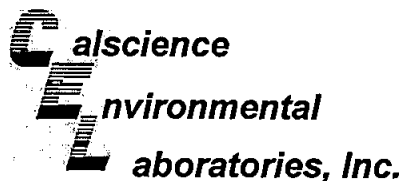
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-0612-1-A	02/05/09 12:10	Aqueous	GC/MS GG	02/10/09	02/15/09 15:43	090210L14

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	135	28-139			2-Fluorobiphenyl	126	33-144		
p-Terphenyl-d14	130	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-02-0612-2-A	02/05/09 11:40	Aqueous	GC/MS GG	02/10/09	02/15/09 16:28	090210L14

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	124	28-139			2-Fluorobiphenyl	122	33-144		
p-Terphenyl-d14	125	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Page 2 of 3

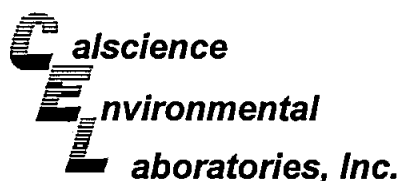
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-02-0612-3-A	02/05/09 11:05	Aqueous	GC/MS GG	02/10/09	02/15/09 17:13	090210L14

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	0.22	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	95	28-139			2-Fluorobiphenyl	93	33-144		
p-Terphenyl-d14	100	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-02-0612-4-A	02/05/09 10:30	Aqueous	GC/MS GG	02/10/09	02/15/09 18:00	090210L14

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	85	28-139			2-Fluorobiphenyl	88	33-144		
p-Terphenyl-d14	106	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: EPA 8270C SIM NHPAH
Units: ug/L

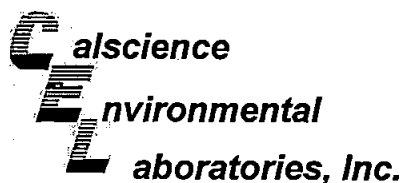
Project: 4902 25th Ave., NE. Seattle, WA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-824-16	N/A	Aqueous	GC/MS GG	02/10/09	02/16/09 11:50	090210L14

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	109	28-139			2-Fluorobiphenyl	103	33-144		
p-Terphenyl-d14	131	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-02-0612-1-F	02/05/09 12:10	Aqueous	GC/MS QQ	02/14/09	02/14/09 18:45	090214L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	111	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	87	70-118		

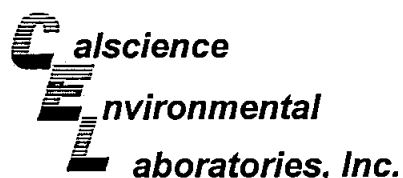
MW-2	09-02-0612-2-G	02/05/09 11:40	Aqueous	GC/MS QQ	02/14/09	02/14/09 19:08	090214L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	112	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	85	70-118		

MW-3	09-02-0612-3-F	02/05/09 11:05	Aqueous	GC/MS QQ	02/14/09	02/14/09 19:31	090214L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	82-130			1,2-Dichloroethane-d4	114	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	89	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-02-0612-4-G	02/05/09 10:30	Aqueous	GC/MS VV	02/16/09	02/17/09 00:04	090216L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	103	75-141		
Toluene-d8	96	83-113			1,4-Bromofluorobenzene	99	70-118		

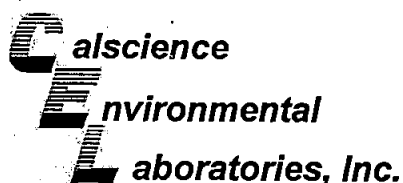
Method Blank	099-10-006-28,489	N/A	Aqueous	GC/MS QQ	02/14/09	02/14/09 13:43	090214L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	90	70-118		

Method Blank	099-10-006-28,507	N/A	Aqueous	GC/MS VV	02/16/09	02/16/09 21:28	090216L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	101	70-118		

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3020A Total
Method: EPA 6020

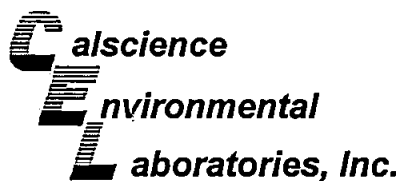
Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-0611-1	Aqueous	ICP/MS A	02/06/09	02/07/09	090206S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	105	104	79-121	0	0-10	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

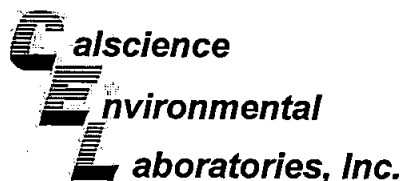
Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: NWTPH-Gx

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	GC 29	02/12/09	02/12/09	090212S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	83	107	68-122	25	0-18	4

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

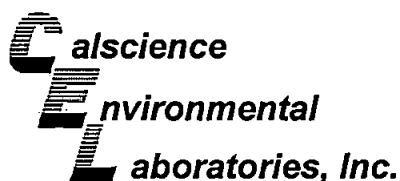
Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: EPA 8270C SIM
NWWPAH

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-0620-18	Aqueous	GC/MS GG	02/10/09	02/14/09	090210S14

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	0	0	21-133	5	0-25	3
2-Methylnaphthalene	274	0	21-140	6	0-25	3
1-Methylnaphthalene	171	0	20-140	8	0-25	3
Acenaphthylene	166	152	33-145	8	0-25	3
Acenaphthene	304	281	49-121	8	0-25	3
Fluorene	452	415	59-121	8	0-25	3
Phenanthrene	394	367	54-120	7	0-25	3
Anthracene	180	168	27-133	7	0-25	3
Fluoranthene	194	184	26-137	5	0-25	3
Pyrene	202	196	45-129	3	0-25	3
Benzo (a) Anthracene	210	201	33-143	4	0-25	3
Chrysene	174	172	17-168	1	0-25	3
Benzo (k) Fluoranthene	171	160	24-159	7	0-25	3
Benzo (b) Fluoranthene	142	134	24-159	6	0-25	
Benzo (a) Pyrene	140	136	17-163	4	0-25	
Indeno (1,2,3-c,d) Pyrene	108	0	0-171	200	0-25	4
Dibenz (a,h) Anthracene	0	0	0-219	0	0-25	
Benzo (g,h,i) Perylene	0	0	0-227	0	0-25	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

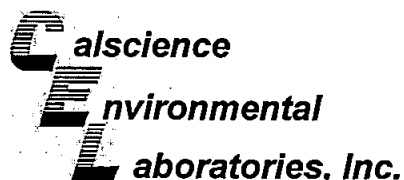
Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-0607-1	Aqueous	GC/MS QQ	02/14/09	02/14/09	090214S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	95	88-118	1	0-7	
Carbon Tetrachloride	100	100	67-145	0	0-11	
Chlorobenzene	92	92	88-118	0	0-7	
1,2-Dibromoethane	103	100	70-130	3	0-30	
1,2-Dichlorobenzene	88	88	86-116	0	0-8	
1,1-Dichloroethene	95	92	70-130	4	0-25	
Ethylbenzene	91	90	70-130	1	0-30	
Toluene	93	94	87-123	1	0-8	
Trichloroethene	91	95	79-127	4	0-10	
Vinyl Chloride	78	83	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	105	104	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	116	113	36-168	3	0-45	
Diisopropyl Ether (DIPE)	103	102	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	103	102	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	99	72-126	0	0-12	
Ethanol	119	111	53-149	7	0-31	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/06/09
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B

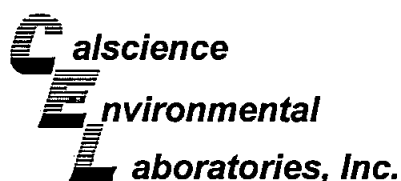
Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-02-0607-3	Aqueous	GC/MS VV	02/16/09	02/16/09	090216S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	92	88-118	2	0-7	
Carbon Tetrachloride	85	85	67-145	0	0-11	
Chlorobenzene	97	96	88-118	1	0-7	
1,2-Dibromoethane	100	98	70-130	2	0-30	
1,2-Dichlorobenzene	99	99	86-116	0	0-8	
1,1-Dichloroethene	81	83	70-130	3	0-25	
Ethylbenzene	97	96	70-130	1	0-30	
Toluene	98	95	87-123	3	0-8	
Trichloroethene	91	90	79-127	1	0-10	
Vinyl Chloride	62	67	69-129	7	0-13	3
Methyl-t-Butyl Ether (MTBE)	101	98	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	111	116	36-168	4	0-45	
Diisopropyl Ether (DIPE)	99	100	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	102	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	104	72-126	1	0-12	
Ethanol	90	115	53-149	24	0-31	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL: (714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

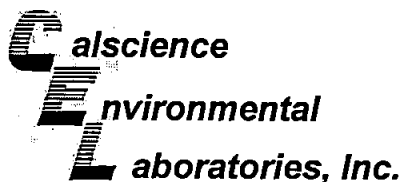
Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 3020A Total
Method: EPA 6020

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-1,914	Aqueous	ICP/MS A	02/06/09	02/07/09	090206L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	99	103	80-120	4	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: NWTPH-Gx

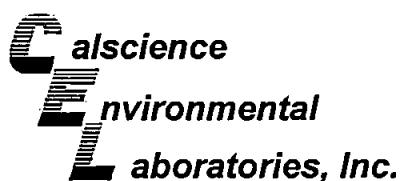
Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-743-137	Aqueous	GC 29	02/12/09	02/12/09	090212B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	108	109	78-120	1	0-10	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: NWTPH-Dx

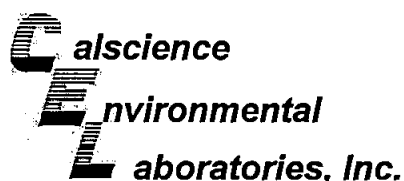
Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-840-45	Aqueous	GC 48	02/10/09	02/12/09	090210B19

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel Range	114	110	75-117	3	0-13	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-824-16	Aqueous	GC/MS GC	02/10/09	02/14/09	090210L14		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Naphthalene	92	91	21-133	2-152	1	0-25	
2-Methylnaphthalene	94	92	21-140	1-160	1	0-25	
1-Methylnaphthalene	93	91	20-140	0-160	1	0-25	
Acenaphthylene	89	86	33-145	14-164	4	0-25	
Acenaphthene	91	91	55-121	44-132	0	0-25	
Fluorene	93	92	59-121	49-131	1	0-25	
Phenanthrene	97	95	54-120	43-131	1	0-25	
Anthracene	86	84	27-133	9-151	3	0-25	
Fluoranthene	90	88	26-137	8-156	2	0-25	
Pyrene	119	112	45-129	31-143	7	0-25	
Benzo (a) Anthracene	87	84	33-143	15-161	3	0-25	
Chrysene	91	91	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	104	101	24-159	2-182	3	0-25	
Benzo (b) Fluoranthene	91	89	24-159	2-182	3	0-25	
Benzo (a) Pyrene	93	92	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	69	67	0-171	0-200	3	0-25	
Dibenz (a,h) Anthracene	57	57	0-219	0-256	0	0-25	
Benzo (g,h,i) Perylene	73	74	0-227	0-265	1	0-25	

Total number of LCS compounds : 18

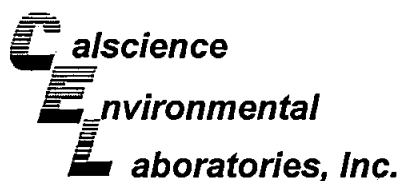
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-28,489	Aqueous	GC/MS QQ	02/14/09	02/14/09	090214L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	92	90	84-120	78-126	2	0-8	
Carbon Tetrachloride	95	93	63-147	49-161	2	0-10	
Chlorobenzene	90	91	89-119	84-124	1	0-7	
1,2-Dibromoethane	100	100	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	87	88	89-119	84-124	1	0-9	ME
1,1-Dichloroethene	88	85	77-125	69-133	4	0-16	
Ethylbenzene	89	87	80-120	73-127	2	0-20	
Toluene	92	90	83-125	76-132	2	0-9	
Trichloroethene	95	94	89-119	84-124	1	0-8	
Vinyl Chloride	80	77	63-135	51-147	4	0-13	
Methyl-t-Butyl Ether (MTBE)	102	100	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	93	101	46-154	28-172	8	0-32	
Diisopropyl Ether (DIPE)	99	96	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	98	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	97	76-124	68-132	0	0-10	
Ethanol	93	104	60-138	47-151	11	0-32	

Total number of LCS compounds : 16

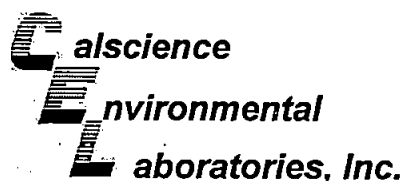
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-02-0612
Preparation: EPA 5030B
Method: EPA 8260B

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-28,507	Aqueous	GC/MS VV	02/16/09	02/16/09	090216L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	112	84-120	78-126	11	0-8	X
Carbon Tetrachloride	99	107	63-147	49-161	8	0-10	
Chlorobenzene	100	114	89-119	84-124	13	0-7	X
1,2-Dibromoethane	101	114	80-120	73-127	12	0-20	
1,2-Dichlorobenzene	102	112	89-119	84-124	9	0-9	
1,1-Dichloroethene	101	107	77-125	69-133	5	0-16	
Ethylbenzene	104	117	80-120	73-127	12	0-20	
Toluene	104	116	83-125	76-132	11	0-9	X
Trichloroethene	101	118	89-119	84-124	15	0-8	X
Vinyl Chloride	91	93	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	103	109	82-118	76-124	5	0-13	
Tert-Butyl Alcohol (TBA)	110	103	46-154	28-172	6	0-32	
Diisopropyl Ether (DIPE)	103	112	81-123	74-130	9	0-11	
Ethyl-t-Butyl Ether (ETBE)	105	111	74-122	66-130	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	115	76-124	68-132	8	0-10	
Ethanol	121	102	60-138	47-151	17	0-32	

Total number of LCS compounds : 16

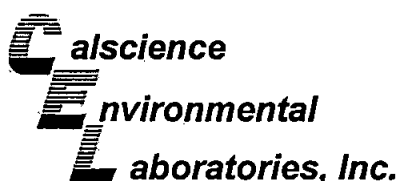
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Glossary of Terms and Qualifiers



Work Order Number: 09-02-0612

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

A handwritten signature in black ink, appearing to be 'M. J. ...'.

☐ OTHER ()☐ OTHER

PAGE: 1 of 1

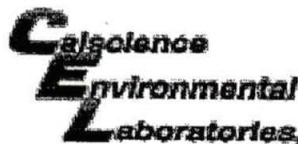
U.S. AGENCY:

☒ RECEIPT VERIFICATION REQUESTED**LARGE ONLY**

TEMPERATURE ON RECEIPT

**Container PID Readings
or Laboratory Notes**

Fedex 866 863 765936



WORK ORDER #: 09-02-0612

SAMPLE RECEIPT FORMCooler 1 of 1CLIENT: Blaine TechDATE: 02/06/09**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)Temperature 2.4 °C - 0.2°C (CF) = 2.2 °C ☐ Blank ☒ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.☐ Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs OnlyInitial: JP**CUSTODY SEALS INTACT:**☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/AInitial: JP☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not PresentInitial: NPI**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☒	☐	☐
COC document(s) received complete.....	☒	☐	☐
Sampler's name indicated on COC.....	☒	☐	☐
Sample container label(s) consistent with COC.....	☒	☐	☐
Sample container(s) intact and good condition.....	☒	☐	☐
Correct containers and volume for analyses requested.....	☒	☐	☐
Analyses received within holding time.....	☒	☐	☐
Proper preservation noted on COC or sample container.....	☒	☐	☐
Volatile analysis container(s) free of headspace.....	☒	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☒

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☐ TerraCores® ☐ _____

Water: ☐ VOA ☒ VOA² ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBpo₄ ☒ 1AGB² ☐ 1AGBna₂

☐ 1AGBs ☒ 1500AGB ☐ 500AGBs ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 500PB ☐ 500PBna ☐ 250PB

☒ 250PBn ☐ 125PB ☐ 125PBznn ☐ 100PBsterile ☐ 100PBna₂ ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar® ☐ Summa® ☐ _____

Checked/Labeled by: NPI

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: N.S.CPreservative: h:HCL n:HNO₃ na₂:Na₂S₂O₃ na:NaOH po₄:H₃PO₄ s:H₂SO₄ znn:ZnAc₂+NaOHScanned by: NPI



**CONESTOGA-ROVERS
& ASSOCIATES**

526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, Washington 98203
Telephone: (425) 212-5100 Fax: (425) 212-5199
www.CRAworld.com

TRANSMITTAL

DATE: July 14, 2009

REFERENCE NO.: 241735

PROJECT NAME: 4902 25th Ave. SE, Seattle, WA

TO: Libby Goldstein

Department of Ecology - NWRO

3190 160th Ave. SE

Bellevue, WA 98008-5452

Please find enclosed: ☐ Draft ☒ Final
☐ Originals ☐ Other
☐ Prints

Sent via: ☒ Mail ☐ Same Day Courier
☐ Overnight Courier ☒ Other Livelinek

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - First Quarter 2009

☒ As Requested ☐ For Review and Comment
☐ For Your Use ☐
☐

COMMENTS:

Copy to: Ms. Carol Campagna, Shell Oil
Products US, c/o Delta Consultant

Completed by: Andy Leung
[Please Print]

Signed: 

Filing: Correspondence File